**ORDER**

**No. A 460**

**Sofia, 30.07.2021**

**KOZLODUY NPP EAD**

**INSPECTION BODY TYPE C**

**PERSONNEL DOSIMETRY CONTROL CENTRE**

**Address of headquarters and office:** 3321 Kozloduy NPP site

**To perform inspection according to the following scope:**

| Scope type: *fixed* | | | | | |
| --- | --- | --- | --- | --- | --- |
| **No.** | **Inspection area** | **Inspection Type** | **Inspected parameter/**  **characteristic** | **Testing/**  **measurement methods used during inspection** | **Legislative acts, standards, specifications, diagrams** |
| **1** | **2** | **3** | **4** | **5** | **6** |
| 1. | The individual effective dose from external exposure, mSv, defined by measuring the individual dose equivalent (personal dose equivalent) – Hp(10), mSv using thermoluminescent dosimeter, worn on the chest. | Individual Dosimetry Control | Individual Effective Dose from external exposure, mSv | Methodology for performing individual thermoluminescent dosimetry control (ID No.КЦ.ПД.МТ.530/01 of 15 December 2007) | Regulation on radiation protection, art.11(1) (SG No.16/2018)  Regulation No.32 on the conditions and procedure for conduct of individual dosimetric control of individuals, working with sources of ionising radiation, art.14 (1), item 2 (SG No. 91/2005)  Technical Specifications |
| 2. | The individual committed effective dose of internal exposure under the in-vivo method including consequently:   1. Gamma spectrometry measurement with a whole-body counter of the activity, incorporated within  human body, Bq; 2. Assessment of intake of radionuclides within human body using specialised software, Bq; 3. Assessment of the individual committed effective dose of internal exposure using specialised software. | Individual Dosimetry Control | Individual Committed Effective Dose of internal exposure, mSv | Methodology for performing individual dosimetry control of internal exposure (ID No.КЦ.ПД.МТ.529/02 of 14 July 2009) | Regulation on radiation protection, art.11(1) (SG No.16/2018)  Regulation No.32 on the conditions and procedure for conduct of individual dosimetry control of individuals, working with sources of ionising radiation, art.33 (1), item 2 (SG No. 91/2005)  Technical Specifications |

Regulation on Radiation Protection, adopted by Council of Ministers’ Decree of 14 February 2018 (Promulgated, SG No. 16/2018; amended and supplemented, SG No. 110/2020);

Regulation No.32 on the conditions and procedure for conduct of individual dosimetry control of individuals, working with sources of ionising radiation, (Promulgated, SG No. 91/2005; amended and supplemented, SG No. 109/2020);

Technical Specifications.